NDIA SO/LIC Symposium

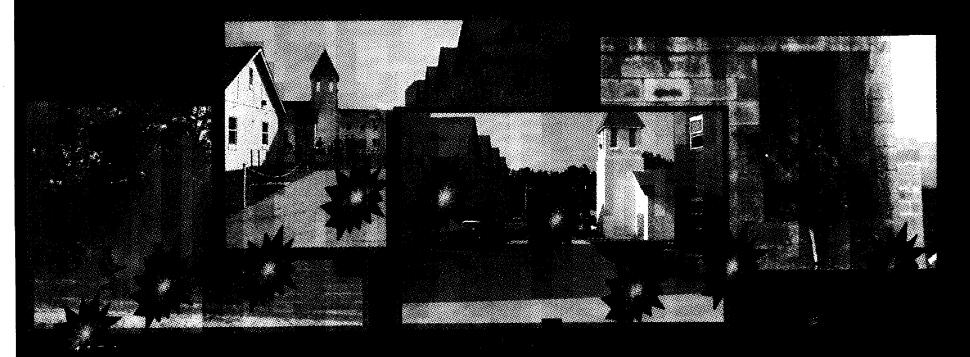
A Special MOUT Presentation

17 February 1999

Crystal City Hyatt Hotel

Defense

Military Operations On Urban Terrain





11th Air Assault used McKenna Range as a training site in the development of Air Mobile concepts.

- A small village was erected as one of three Army designs of the European theater.





1996 - DBBL acquired McKenna in support of DOD MOUT ACTD.

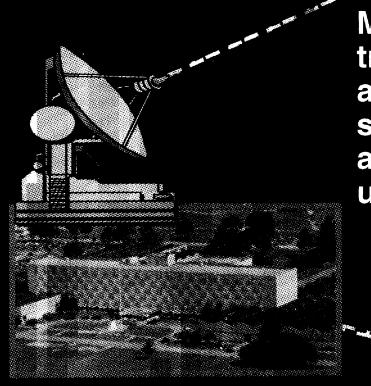
Tango 7

430 Acres

26,000 ft of Fiber Optics

42,000 Man-hours

\$4.5 Mil Instrumentation



McKenna has evolved into a training and experimentation test and instrumentation complex that supports the warfighter during advanced combat training in an urban environment.



The MOUT facility is connected to the Defense Simulations Network and USAIS classrooms for worldwide simulations and training exercises.



- Advanced Technological Test Bed
 - Force XXI Land Warrior
 - Target Engagement
 - Small Unit Operations
 - Integrated Combat Identification Dismounted Soldier
 - Robotics
 - Mini-UAVs
- Training Facility, Enhanced (Level 5)
 - Troop Maneuver Area (All Terrain)
 - Integrated Tracking and Surveillance Systems
 - Simulations to Support Virtual and Constructive Environment
 - Distance Learning Worldwide
 - Multimedia and CDROM Development Site

- On-site Lodging
- 5,000 ft Runway and Heliport
- 430 Acre Maneuver Area
- 29 Urban Structures
- Tunnel System
- Preplanning and After Action Review Facility
- Observer Controllers

Battle Site and
 Troop Movement
 Area





Control Center



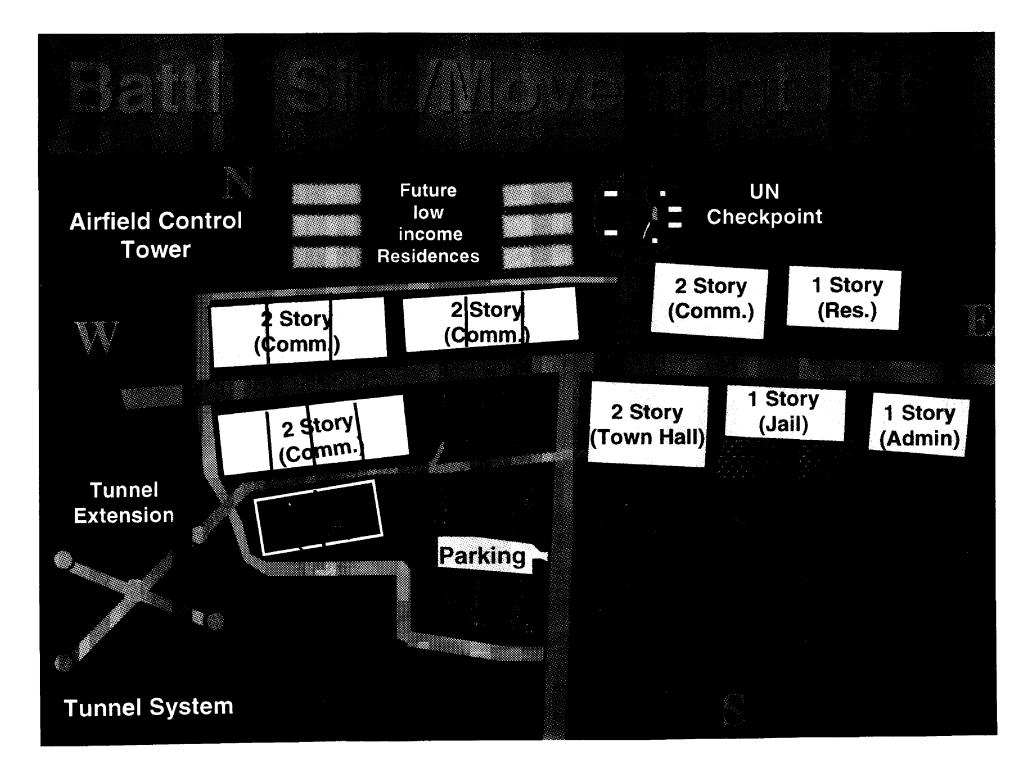
Operations

Data Collection and Storage

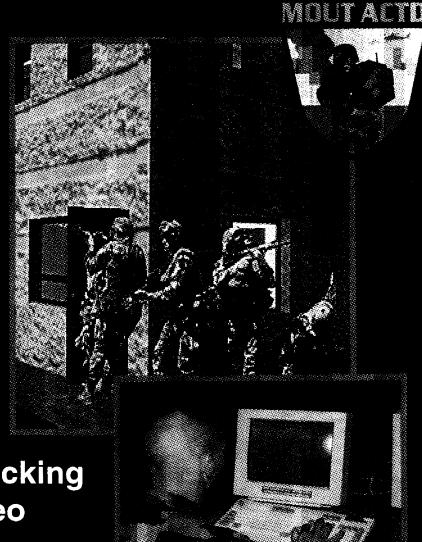
Multi-Track Digital Video Recorders

- 128 x 64 Video Switcher
- 3D Computer Modeling
- 2D Mapping and Analysis Workstation
- Video Conferencing and High Speed Transmission Equipment

composer when he had a composer to the compose



- I-CIDDS Instrumentation
 - Indoor
 - -Outdoor
- Video (Complete Coverage)
 - Indoor
 - Outdoor
 - Day and Night
 - Remotely Controlled
- Audio
 - Two Way
- Virtual Simulations
 - **3D**
 - 2D, Soldier ID, Shot Tracking
- Industry Standard Digital Video
- Synchronized Playback



So ier Components

Ser so

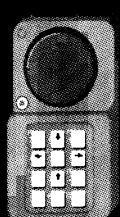
Helmet Unit

Arm Detector

Smart Laser

Indoor

Master Control Box



Umpire Unit for Guiding the Exercise and Data Collection



Outdoor Miles Compatible GPS

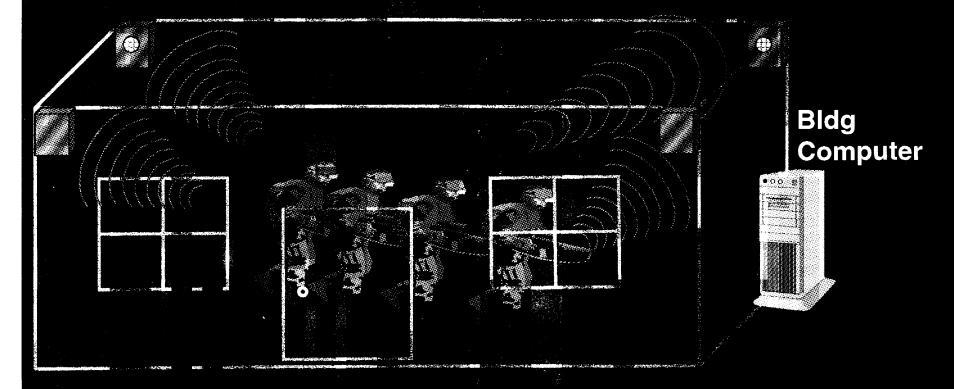


• All Weather Day and Night IFF Capability

- Proven System Performance Through Obscuration,
 Vegetation
- Interrogation and Response Up to 5 km Range
- Works in Dust, Smoke, Fog Within Soldier Visual / Weapon Range
- Sealed and Hardened to Withstand Specified Environments
- Proven Combat Mode Operation Through Extensive Exercises and Field Tests
- I-CIDDS to Be Part of Combat Unit's Mission Essential Task List (METL)

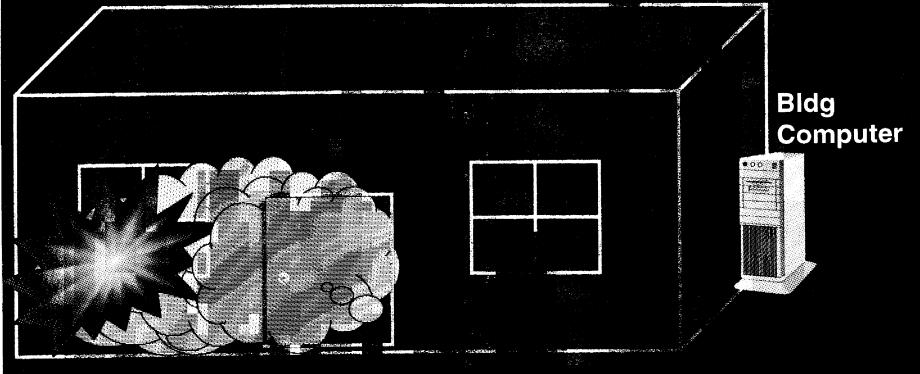


I - CIDDS Provides Combat ID Through the "Bushes"



Position Location and Data Sensors

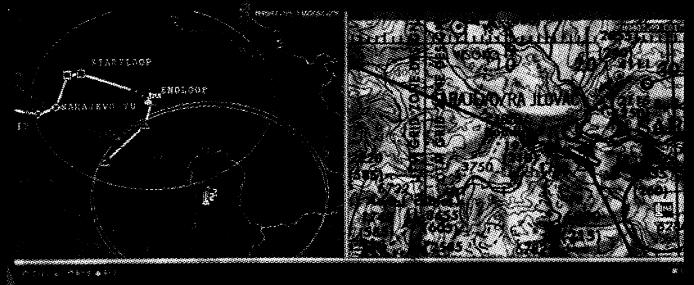


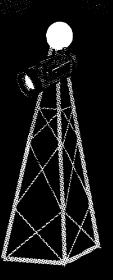


Smoke and Simunitions









Tower





